

What is claimed is:

1. A new adjustable bow sight mechanism for use with a sighting element that obviates the need for a separate locking mechanism to maintain the sighting element in position, the adjustable bow sight mechanism comprising:
  - 5 a sight mount adapted for attachment to a bow;
  - a first adjustment mechanism operatively connected to the sight mount and the sighting element for adjusting the sighting element in a first direction, the first adjustment mechanism including a slide lock, a slide stop, and a slide;
  - the slide lock, the slide stop and slide having apertures to allow the slide to move in
  - 10 between the slide lock and the slide stop in response to a rotation of a head; and
  - the slide lock having a plunger extending to contact the head.
2. The adjustable bow sight mechanism of claim 1 further comprising at least one elongated spacing element having a first end fixed about the slide lock and a second end
- 15 fixed about the slide stop.
3. The adjustable bow sight mechanism of claim 2 further comprising an aperture in the slide, the spacing element extending through the aperture, a flexible bushing disposed in the aperture between the slide and the spacing element.
- 20 4. The adjustable bow sight mechanism of claim 1 wherein the head moves the slide by a screw device.
5. The adjustable bow sight mechanism of claim 4 wherein the screw device moves
- 25 the slide by interacting with a threaded aperture in the slide.
6. The adjustment bow sight mechanism of claim 1 wherein the head has at least one detent for the plunger to extend into.
- 30 7. The adjustment bow sight mechanism of claim 6 wherein the head has a plurality of detents.

8. The adjustable bow sight mechanism of claim 3 wherein the flexible bushings are nylon bushings.
- 5 9. The adjustable bow sight mechanism of claim 3 wherein the flexible bushings are brass bushings.
- 10 10. The adjustable bow sight mechanism of claim 1 further comprising a second adjustment mechanism operatively connected to the first adjustment mechanism and the sighting element for adjusting the sighting element in a second direction perpendicular the first direction.
11. The adjustable bow sight mechanism of claim 10 wherein the second adjustment mechanism comprises:
- 15 a slide lock, a slide stop, and a slide;  
the slide lock, the slide stop and slide having apertures to allow the slide to move in between the slide lock and the slide stop in response to a rotation of a head; and the slide lock having a plunger extending to contact the head.
- 20 12. A new adjustable bow sight mechanism for use with a sighting element and a sight mount that obviates the need for a separate locking mechanism to maintain the sighting element in position, the adjustable bow sight mechanism comprising:  
a first adjustment mechanism operatively connected to the sight mount and the sighting element for adjusting the sighting element in a first direction;
- 25 the first adjustment mechanism including a slide lock, a slide stop, and a slide mounted between the slide stop;  
the slide lock on an elongated screw device extending between the slide stop and slide lock and through a threaded aperture in the slide;  
the slide lock having an outer surface with a plunger extending therefrom that fits into a
- 30 detent on a head of the screw device wherein the head can be rotated for adjusting the slide along the length of the screw device;

at least one elongated spacing element extending between the slide lock and the slide stop;  
and  
the slide having apertures for receiving the spacing elements with flexible bushings  
disposed between the slide and the spacing elements.

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13. The adjustable bow sight mechanism of claim 12 wherein the flexible bushings are  
nylon bushings.

14. The adjustable bow sight mechanism of claim 12 wherein the flexible bushings are  
10 brass bushings.

15. The adjustable bow sight mechanism of claim 12 further comprising a second  
adjustment mechanism operatively connected to the first adjustment mechanism and the  
sighting element for adjusting the sighting element in a second direction perpendicular the  
15 first direction.

16. The adjustable bow sight mechanism of claim 15 wherein the second adjustment  
mechanism comprises:  
a slide lock, a slide stop, and a slide mounted between the slide stop;  
20 the slide lock on an elongated screw device extending between the slide stop and slide lock  
and through a threaded aperture in the slide;  
the slide lock having an outer surface with a plunger extending therefrom that fits into a  
detent on a head of the screw device wherein the head can be rotated for adjusting  
the slide along the length of the screw device;  
25 at least one elongated spacing element extending between the slide lock and the slide stop;  
and  
the slide having apertures for receiving the spacing elements with flexible bushings  
disposed between the slide and the spacing elements.

30 17. A first ever method of sighting a bow having a sighting element with a plurality of  
pins, the method comprising the steps of:

providing a bow;

providing an adjustable bow sight mechanism comprising a sight mount adapted for

attachment to the bow, a first adjustment mechanism operatively connected to the

sight mount and the sighting element for adjusting the sighting element in a first

5 direction; the first adjustment mechanism including a slide lock, a slide stop, and a

slide mounted between the slide stop; the slide lock on an elongated screw device

extending between the slide stop and slide lock and through a threaded aperture in

the slide; the slide lock having an outer surface with a plunger extending therefrom

that fits into a detent on a head of the screw device wherein the head can be rotated

10 for adjusting the slide along the length of the screw device; at least one elongated

spacing element extending between the slide lock and the slide stop; and the slide

having apertures for receiving the spacing elements with flexible bushings disposed

between the slide and the spacing elements;

attaching the bow sight mount to the bow;

15 adjusting the plurality of pins in the sighting element individually to achieve a desired

spacing of shots at different distances; and

adjusting the sighting element by rotating the screw devices on the first adjustment

mechanism.

20 18. The method of claim 17 wherein the adjustable bow sight mechanism has a second  
adjustment mechanism operatively connected to the first adjustment mechanism and the  
sighting element for adjusting the sighting element in a second direction perpendicular the  
first direction.

25 19. The method of claim 18 further comprising the step adjusting the sighting element  
by using the second adjustment mechanism.

20. The method of claim 18 wherein the second adjustment mechanism comprises a  
slide lock, a slide stop, and a slide mounted between the slide stop; the slide lock on an  
30 elongated screw device extending between the slide stop and slide lock and through a  
threaded aperture in the slide; the slide lock having an outer surface with a plunger

extending therefrom that fits into a detent on a head of the screw device wherein the head can be rotated for adjusting the slide along the length of the screw device; at least one elongated spacing element extending between the slide lock and the slide stop; and the slide having apertures for receiving the spacing elements with flexible bushings disposed  
5 between the slide and the spacing elements.